

Title (en)

Hybrid alignment type liquid crystal display with multi-domain structure

Title (de)

Flüssigkristallanzeige vom hybriden Ausrichtungstyp mit Vielfachdomänen-Struktur

Title (fr)

Dispositif d'affichage à cristal liquide du type à alignement hybride avec structure à multi-domaines

Publication

**EP 0768560 B1 20030115 (EN)**

Application

**EP 96307467 A 19961014**

Priority

JP 26575995 A 19951013

Abstract (en)

[origin: EP0768560A1] A liquid crystal display having: a pair of substrates (11) disposed parallel and having a predetermined gap therebetween; a liquid crystal layer (30) sandwiched between the pair of substrates and containing liquid crystal molecules; electrodes (12) formed on the opposing surfaces of the pair of substrates for applying an electric field to the liquid crystal layer for each pixel; a first alignment film (13a) formed on the opposing surface of one of the pair of substrates and covering one electrodes, the first alignment film aligning the liquid crystal molecules in the direction generally vertical to the substrate plane; and a second alignment film (13b) formed on the opposing surface of the other of the pair of substrates and covering the other electrodes, the second alignment film aligning the liquid crystal molecules in the direction generally parallel to the substrate plane and giving a pre-tilt to the liquid crystal molecules, an area corresponding to each pixel of the second alignment film being divided into a plurality of domains each having a single easy direction, and at least two domains in the pixel area having different easy directions. <IMAGE>

IPC 1-7

**G02F 1/1337**; **G02F 1/1335**

IPC 8 full level

**G02F 1/1337** (2006.01); **G02F 1/13363** (2006.01); **G02F 1/139** (2006.01)

CPC (source: EP US)

**G02F 1/133753** (2013.01 - EP US); **G02F 1/13363** (2013.01 - EP US); **G02F 1/133757** (2021.01 - EP US); **G02F 1/1393** (2013.01 - EP US)

Cited by

US7365817B2; EP0899605A3; EP1363156A3; US6798481B2; GB2318880A; GB2318880B; NL1006054C2; US6081311A; US6512561B1; US6222601B1; US6992741B2; US6593987B1; US7283188B2; US7460200B2; WO9857223A1; WO9852077A1; US7633596B2; US7397526B2; US6903790B2; US7106410B2; KR100624750B1; TWI407198B; US7679701B2; US6734936B1; US7292292B2; US8553196B2; US8830425B2; US9643445B2

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DOCDB simple family (application)

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